IN THE CLAIMS:

Please cancel claims 2, 5, 6, 11, 14, 15 and 20 without prejudice.

Claims 1, 3, 4, 7-10, 12, 13, 16-19, 21 and 22 are pending in the application.

- 1. (Currently amended) An apparatus for bonding a transmission line to the inside diameter of a downhole tool, the apparatus comprising:
- a pre-formed interface for bonding a transmission line to the inside diameter of a downhole tool, wherein the pre-formed interface is a single continuous component extending most of the length of the downhole tool and comprises:
 - a first surface substantially conforming to the outside contour of a transmission line; and a second surface substantially conforming to the inside diameter of a downhole tool.
- 2. (Canceled)
- 3. (Original) The apparatus of claim 1, wherein the first surface is bonded to the transmission line.
- 4. (Original) The apparatus of claim 3, wherein the first surface is bonded to the transmission line using at least one of adhesives and welding.
- 5. (Canceled)
- 6. (Canceled)
- 7. (Original) The apparatus of claim 1, wherein the second surface is bonded to the inside diameter of the downhole tool using at least one of adhesives and welding.
- 8. (Original) The apparatus of claim 1, wherein the pre-formed interface is pre-formed using at least one method selected from the group consisting of extrusion, stamping, and casting.

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- 9. (Original) The apparatus of claim 1, wherein the pre-formed interface is configured to engage at least one recess milled in the surface of the inside diameter.
- 10. (Currently amended) A method for bonding a transmission line to the inside diameter of a downhole tool, the method comprising:

pre-forming an interface for bonding a transmission line to the inside diameter of a downhole tool, wherein pre-forming comprises:

forming a first surface as single continuous component extending most of the length of the downhole tool substantially conforming to the outside contour of a transmission line; and forming a second surface substantially conforming to the inside diameter of a downhole tool; and

bonding the second surface to the inside diameter of the downhole tool.

- 11. (Canceled)
- 12. (Original) The method of claim 10, further comprising bonding the first surface to the transmission line.
- 13. (Original) The method of claim 12, wherein bonding further comprises bonding using at least one of adhesives and welding.
- 14. (Canceled)
- 15. (Canceled)
- 16. (Original) The method of claim 10, wherein bonding the second surface to the inside diameter of the downhole tool comprises bonding using at least one of adhesives and welding.

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- 17. (Original) The method of claim 10, wherein pre-forming the interface further comprises preforming using at least one method selected from the group consisting of extruding, stamping, and casting.
- 18. (Original) The method of claim 10, further comprising engaging, by the pre-formed interface, at least one recess milled in the surface of the inside diameter.
- 19. A method for bonding a transmission line to the inside diameter of a downhole tool, the apparatus comprising:

positioning a transmission line near the inside wall of a downhole tool; positioning a mold near the transmission line and the inside wall; injecting a bonding material into the mold such that the bonding material bonds the transmission line to the inside wall; and curing the bonding material; and

removing the mold from the bonding material.

20. (Canceled)

- 21. The method of claim 19, further comprising prepping the surface of at least one of the inside wall, and the transmission line, before injecting the bonding material.
- 22. The method of claim 19, further comprising forming gaps in the bonding material at desired intervals along the bonding material.